

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/008614

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7    B21D7/08    B21D9/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7    B21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 198 30 962 A (FRAUNHOFER GES FORSCHUNG) 13 January 2000 (2000-01-13) column 4, lines 43-59; figures 1,2 -----	1-20
X	US 5 036 692 A (TASAKI SHIZUKA ET AL) 6 August 1991 (1991-08-06) column 3, lines 18-53; figures -----	1-20
X	DE 101 19 030 A (PALIMA W LUDWIG & CO) 3 January 2002 (2002-01-03) paragraph '0179! - paragraph '0180!; figures ----- -/-	1-20

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- 'A' document defining the general state of the art which is not considered to be of particular relevance
- 'E' earlier document but published on or after the international filing date
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- 'O' document referring to an oral disclosure, use, exhibition or other means
- 'P' document published prior to the international filing date but later than the priority date claimed

'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

'&' document member of the same patent family

Date of the actual completion of the international search

19 October 2004

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27/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category <sup>a</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 015, no. 437 (M-1176), 7 November 1991 (1991-11-07) - & JP 03 184632 A (HASHIMOTO FORMING IND CO LTD), 12 August 1991 (1991-08-12) abstract; figures -----	1-20
A	US 5 884 517 A (YOGO TERUAKI) 23 March 1999 (1999-03-23) cited in the application abstract; figures -----	1,9

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			JP	3291117 A		20-12-1991
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JP 03184632	A	12-08-1991	NONE			
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